

# इंटरनेट

# मानक

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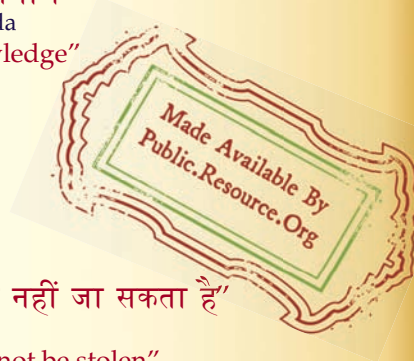
IS 12936 (1990): Code for basic requirements for delivery persons engaged in the delivery of LPG cylinders [MED 16: Gas Cylinders]



“ज्ञान से एक नये भारत का निर्माण”

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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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REAFFIRMED 2006

IS 12936 : 1990

*Indian Standard*

**CODE FOR BASIC REQUIREMENTS FOR  
DELIVERY PERSONS ENGAGED IN  
THE DELIVERY OF LPG CYLINDERS**

**भारतीय मानक**

**एल पी जी सिलिंडरों के वितरण में कार्यरत व्यक्तियों की आधारभूत उपेक्षाओं  
सम्बन्धी संहिता**

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**BUREAU OF INDIAN STANDARDS  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002**

*October 1990*

**Price Group 1**

**Gas Cylinders Sectional Committee, HMD 16**

## **FOREWORD**

This Indian Standard was adopted by the Bureau of Indian Standards on 8 March 1990, after the draft finalized by the Gas Cylinders Sectional Committee had been approved by the Heavy Mechanical Engineering Division Council.

Currently, the number of persons engaged in delivery of LPG cylinders to consumers is around 20,000 persons. With the addition of customers at the present level about 500 new persons would be added to this trade every year.

At present there are no formal programmes/training schools to train these persons so that they know the minimum safety levels required to ensure safety of the consumers and that of the equipment. Since these numbers are increasing everyday it is considered that with the issue of this standard, a number of aspects of delivery of LPG cylinder to customers would be taken care of by making the persons observe minimum safety levels at all times. This standard will, thus, help increase in the safety levels and also increase the equipment life in the long way.

**AMENDMENT NO. 1   APRIL   1998**  
**TO**  
**IS 12936 : 1990   CODE FOR BASIC REQUIREMENTS**  
**FOR DELIVERY PERSONS ENGAGED IN THE**  
**DELIVERY OF LPG CYLINDERS**

*( Page 2, clause 8.2.1, last line ) — Substitute '5.2.1' for '4.2.1'.*

**( HMD 16 )**

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**Reprography Unit, BIS, New Delhi, India**

## *Indian Standard*

# CODE FOR BASIC REQUIREMENTS FOR DELIVERY PERSONS ENGAGED IN THE DELIVERY OF LPG CYLINDERS

## 1 SCOPE

**1.1** This code limits the responsibility of delivery persons after the receipt of filled cylinders at the godown, checking of net weight of the contents, transportation to customer's premises, disconnecting of the old consumed cylinder and replacing it with a filled cylinder, testing for leak and/or other difficulties and bringing back the empty cylinders to godown.

## 2 REFERENCES

**2.1** The following Indian Standards are necessary adjuncts to this standard:

| <i>IS No.</i> | <i>Title</i>                                          |
|---------------|-------------------------------------------------------|
| 10908 : 1984  | Flexible rubber tubing for liquefied petroleum gas    |
| 12011 : 1987  | Code of safety practice for domestic LPG installation |

## 3 DEFINITIONS

### 3.1 Delivery Person

Delivery person is a person who transports filled/empty cylinder between godown and customers' premises and also connects, disconnects and conducts checks on the equipment like cylinder, valve, regulator and rubber tubing etc.

### 3.2 Empty Cylinder

An LPG cylinder without any Liquefied Petroleum Gas (except marginally left over contents in the form of liquid and/or vapours).

### 3.3 Smell of Gas

A peculiar smell of LP Gas which distinguishes it from other gases.

### 3.4 Delivery Vehicle

Any mode of transport except two wheelers used to carry LPG cylinders full of gas or empty in vertical position.

### 3.5 Recognized Agency

Any Institution/Agency approved by the filler (oil companies) for imparting training to delivery persons.

## 4 BASIC REQUIREMENTS

### 4.1 Age

All persons engaged in delivery of cylinders to customers shall have attained the age of adulthood, that is, 18 years.

### 4.2 Educational Qualification

The delivery person shall at least be able to read Hindi or English or local language and also be able to write any one of these languages.

### 4.3 Physical Fitness

Delivery person shall be physically fit and shall not have any physical handicap of body including smelling power which is vital to identify the leakage of the gas. The eyesight shall also be normal with or without glasses.

## 5 TRAINING

### 5.1 Class-Room Training

The delivery person should obtain class-room training by a recognized agency on the following aspects.

#### 5.1.1 Broad Knowledge of

- a) Oil companies marketing liquefied petroleum gas.
- b) Physical properties of liquefied petroleum gas like smell, density, colour, inflammability and other hazards.
- c) Importance of vertical stacking of cylinders — valve facing upwards.
- d) Code of safety practice for domestic LPG installation (IS 12011 : 1987).

#### 5.1.2 Detailed Knowledge of

- a) LPG Cylinders:
  - i) marking on cylinders and valves,
  - ii) circumferential weld joints,
  - iii) valve bung joint,
  - iv) foot ring, and
  - v) valve protection ring etc.
- b) Pressure Regulators:
  - i) Type of regulators and markings on it/procedure for connection/disconnection, and

- ii) Purpose of breather-hole/general defects in pressure regulator etc.
- c) Rubber Tubing  
Standard rubber tubing/condition of rubber tubing when to be changed/probable places where rubber tube wears out fast.
- d) LPG Stove  
Familiarity with various cooking appliances for use with LPG.
- e) Cylinder Valves
  - i) 'O' Ring/joint packing and its importance.
  - ii) Various types of leakage through valves and their precautionary measures, etc.
- f) Detection of gas leakages (water or soap not to be used for valve pin leakage).
- g) Precautions to be taken while transporting LPG cylinders, from godowns to customer premises.
- h) Precautions to be taken at the customers' premises.
- j) Educating customers on simple Do's and Don'ts.
- k) Handling emergencies — Knowledge of Do's and Don'ts in the event of leakages.
- m) Safety rules of LPG and statutory rules regarding handling, transportation and storage of LPG cylinders.
- n) Visual identification for detection of spurious cylinders, valves and regulators.

NOTE—The above are the general guidelines to be covered while training the delivery persons. Based on the technology of the equipment if any other material is required to be communicated to the delivery person, the same may also be included.

## 5.2 Practical Training

After having imparted the class-room training as given in 4.1, the delivery person should be made to work under a regular delivery person for a reasonable period so as to make him conversant with the actual working condition.

5.2.1 After satisfactory completion of practical training, the recognized agency shall issue a certificate to the deliveryman.

## 6 RESPONSIBILITIES OF THE DELIVERY PERSON

6.1 The following duties shall be performed by delivery person:

- a) Checks on cylinders at the godown.
- b) Transport the cylinders from godown to customers' premises and back.

- c) Checks on cylinders and installation at customers' premises and ensuring that the cylinders not in use are always fitted with safety cap.

## 7 DELIVERY PERSON'S TOOL KIT

7.1 The delivery person should carry a tool-kit (preferably in a bag) comprising of the following tools:

### a) For LPG Cylinders with 'T' Valve

- i) Suitable plier/spanner ... 1 No.
- ii) Flat (Moulded Nitrile Rubber) Washers ... 10 Nos.
- iii) Security nut for cylinder valve ... 5 Nos.
- iv) Portable Fire Extinguisher ... 1 Nos.
- v) Flexible rubber tubing conforming to IS 10908 : 1984 (1.5 m) ... 1

### b) For Cylinders with Self-Closing Valves

- i) 'O' Ring/joint packing for SC/MB type valves ... 10 Nos.
- ii) Safety Caps along with Nylon thread ... 5 Nos.
- iii) Portable Fire Extinguisher ... 1 No.
- iv) Flexible Rubber Tubing conforming to IS 10908 : 1984 (of 1.5 m) ... 1
- v) Suitable device for removal and fixing 'O' Ring/joint packing ... 1 No.
- vi) Suitable device for checking leakage through valve pin (Spindle of SC valve) ... 1 No.

## 8 IDENTIFICATION

8.0 Each delivery person shall be identifiable by the following.

### 8.1 Uniform

A proper cotton uniform shall be provided to the delivery person so as to make his appear presentable to the customer.

### 8.2 Identity Card

An identity card with photograph shall be issued by the distributor to each delivery person so that he is able to show it to the customers as and when they want to confirm of the *bonafide* of the delivery person.

8.2.1 Identity Cards shall be issued to only those delivery persons who possess a certificate as describe in 4.2.1.

**Standard Mark**

The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.